

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-122167

(43)Date of publication of application : 30.04.1999

(51)Int.Cl.

H04B 7/26

H04J 13/00

(21)Application number : 10-159610

(71)Applicant : NEC CORP

(22)Date of filing : 08.06.1998

(72)Inventor : FURUKAWA HIROSHI  
YOSHIDA NAOMASA  
ATOKAWA AKIHISA

(30)Priority

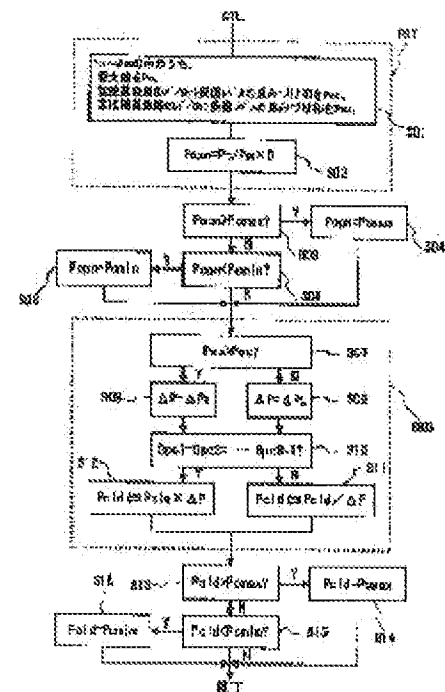
Priority number : 09228976 Priority date : 12.08.1997 Priority country : JP

## (54) TRANSMISSION POWER CONTROL METHOD AND SYSTEM THEREFOR IN CODE DIVISION AND MULTIPLEX CELLULAR MOVING RADIO COMMUNICATION SYSTEM

(57)Abstract:

**PROBLEM TO BE SOLVED:** To suppress the interference of an incoming line by means of the sudden improvement of a transmission loss between a non-connection base station and a mobile station owing to the movement of the mobile station by reducing the transmission power of the mobile station, based on the weighting sum of pilot signal reception levels and suppressing the power increase of transmission power control.

**SOLUTION:** When the reception level of a pilot signal in the non-connection base station B suddenly exceeds that of the connection base station A, a first transmission power control part FST suddenly reduces the output of the mobile station. The weighting sum of the reception level of the pilot signal in the connection base station is set to be  $P_{ac}$  and that of the non-connection base station to be  $P_{au}$ . When  $P_{au} < P_{ac}$ , a second transmission power control part SND sets a transmission power control step size to be  $\Delta PL$  and the control step size to be  $\Delta$



PS( $\Delta PL$ ) when  $P_{au} > P_{ac}$ . During a connection processing with the base station B,  $\Delta PS$  is set as the control step size, and the rise speed of transmission power becomes slow and excessive transmission power is suppressed.